Provide defining equations (PDEs, etc), valid near one or more grid boundary segments in a general read coordinate system, of a selected grid system, where each defining equation has at least two independent Cartosian coordinate variables and has at least one generalized coordinate as a dependent variable

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Provide boundary constraints for the grid system, valid near one or more boundary gainst assignments, where decay parameter for a generalized coordinate dependent variable is determined as part of a solution of the defining equations, as part of a solution of the defining equations, rather than being in Itially proscribed

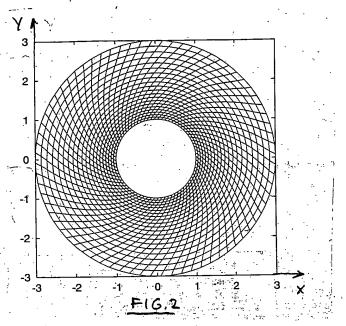
Provide defining equations and selected boundary conditions for a steady state heat transfer problem, having at least two independent coordinates, and providing a correspondence between the at least two independent coordinates for the grid the at least two independent coordinates for the system near at logstone grid boundary sognerables the at least two independent coordinates, for the the at least two independent coordinates, for the heat transfer problem

Provide a correspondence between a selected power of at least one heat transfer coefficient for the heat transfer least one heat transfer decay parameter for the grid problem and at least one decay parameter segment system near the at least one grid boundary segment

Provide a solution of the girld grid and any segment system near the at least one boundary that incorporates the at least one boundary that incorporates the at least one decay parameter constraint comprising the at least one decay parameter determined for the grid system

F16.1

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Inventor: Upender K. Kaul
NASA Case No.: ARC-14710-1
NASA POC: Vickie Kent (650) 604-0887



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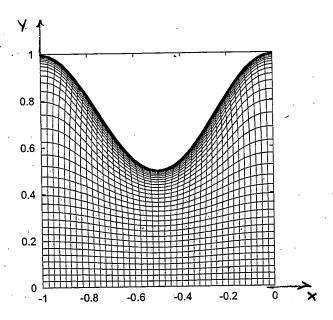


FIG.3

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